

1.4 kb—



Figure 1

1 CCCTTCTCCAGGACTCTGGCTGCCAGCAGCTCCGCCTTTTCAGATCAATTCTCGACCACC 60
61 CACCTTGGGACTGCCGCCCAGTCCTGCCCTCTGGATCAGTGGGGTCCAGACACGCCCCCT 120
121 CCAGGACCTCAAAGCACCCCCGACCTAAGGTCACCAGCCCACTGGCCCCAGACGCAGTGG 180
181 GCTCCGCTGACTCTCTTGGACACCTCCTGGGAGGAAAATGCTCCCTGTCTGCCATCGTTT 240
M L P V C H R F
241 TTGCGACCACCTCCTCCTCCTGCTCTTGCTGCCCTCGACGACCCTGGCCCCCGCGCCAGC 300
C D H L L L L L L L P S T T L A P A P A
301 ATCCATGGGCCCCGCTGCCGCCCTGCTCCAGGTTCTTGGGCTTCCCGAAGCGCCCCGGAG 360
S M G P A A A L L Q V L G L P E A P R S
361 CGTCCCCACACACCGACCTGTGCCTCCTGTCTGTGGCGCCTATTCGTCGCCGTGACCC 420
V P T H R P V P P V M W R L F R R R D P
421 CCAGGAGGCCAGAGTGGGACGCCCTCTGCGGCCATGCCACGTGGAGGAACTAGGGGTGCG 480
Q E A R V G R P L R P C H V E E L G V A
481 CGGAAACATTGTGCGCCACATCCCCGACAGCGGTCTGTCTCCAGGCCCCGACAACCCGC 540
G N I V R H I P D S G L S S R P A Q P A
541 CAGGACCTCGGGGCTGTGCCCCGAGTGGACAGTCGTCTTTGACCTGTGCAATGTGGAGCC 600
R T S G L C P E W T V V F D L S N V E P
601 CACAGAGCGCCCAACACGCGCGCGCTTAGAGTTGCGGCTGGAGGCTGAGTGTGAAGATAC 660
T E R P T R A R L E L R L E A E C E D T
661 AGGAGGGTGGGAGCTAAGCGTGGCACTGTGGGCCGACGCAGAGCATCCAGGGCCTGAGCT 720
G G W E L S V A L W A D A E H P G P E L
721 GCTGCGCGTGCCGGCGCCACCAGGGGTGCTCCTGCGCGCAGACCTACTGGGGACTGCAGT 780
L R V P A P P G V L L R A D L L G T A V
781 AGCCGCCAACGCATCAGTGCCCTGTACTGTGCGCCTGGCGCTGTCACTGCACCCTGGGGC 840
A A N A S V P C T V R L A L S L H P G A
841 CACTGCAGCCTGTGGGCGCCTGGCTGAGGCCTCCCTGCTGCTGGTGACGCTGGACCCAGC 900
T A A C G R L A E A S L L L V T L D P R
901 CCTGTGTCCCTTGCCGCGATTGCGGCGCCACACGGAGCCCAGGGTAGAAGTTGGTCCAGT 960
L C P L P R L R R H T E P R V E V G P V
961 GGGCACTTGTCGTACCCGACGGTTGCATGTGAGCTTCCGTGAGGTGGGCTGGCACCGTTG 1020
G T C R T R R L H V S F R E V G W H R W
1021 GGTGATCGCGCCGCGTGGCTTCTAGCCAACTTCTGCCAGGGCACGTGCGCACTACCCGA 1080
V I A P R G F L A N F C Q G T C A L P E
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T L R G P G G P P A L N H A V L R A L M
1141 GCACGCAGCTGCTCCACCCCGGGTGCAGGCTCGCCCTGCTGCGTGCCAGAGCGTCTATC 1200
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1201 ACCCATCTCCGTGCTCTTCTTCGACAATAGTGACAACGTGGTCCTGCGACACTACGAAGA 1260
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1261 CATGGTGGTGGATGAGTGTGGCTGCCGTTGACCACCCGGGACACCCTTTTCAGGGACCGCC 1320
M V V D E C G C R
1321 CCACGCAAAAGCAGGGACTGTTTGTTCATGTTTTATTGGTGACAAAAAGCTTAAACAAA 1380
1381 TTTGACT 1387

	GDF-1	Vg-1	Vgr-1	BMP-2a	BMP-2b	BMP-3	DPP	MIS	Inhibin α	Inhibin βA	Inhibin βB	TGF- $\beta 1$	TGF- $\beta 2$	TGF- $\beta 3$	TGF- $\beta 4$	TGF- $\beta 5$
GDF-1	100	52	40	38	39	41	34	33	22	31	31	26	27	30	26	26
Vg-1	-	100	59	59	57	45	49	27	23	45	40	34	35	38	33	35
Vgr-1	-	-	100	62	59	43	57	26	23	45	39	35	37	38	37	37
BMP-2a	-	-	-	100	92	44	73	26	20	42	37	34	34	35	33	33
BMP-2b	-	-	-	-	100	44	74	27	21	41	37	33	34	35	33	33
BMP-3	-	-	-	-	-	100	42	25	28	33	33	29	31	31	26	28
DPP	-	-	-	-	-	-	100	25	20	39	36	35	35	35	35	34
MIS	-	-	-	-	-	-	-	100	18	22	22	24	21	26	25	24
Inhibin α	-	-	-	-	-	-	-	-	100	23	21	24	23	24	24	24
Inhibin βA	-	-	-	-	-	-	-	-	-	100	63	38	37	36	35	38
Inhibin βB	-	-	-	-	-	-	-	-	-	-	100	35	35	36	34	32
TGF- $\beta 1$	-	-	-	-	-	-	-	-	-	-	-	100	73	77	85	81
TGF- $\beta 2$	-	-	-	-	-	-	-	-	-	-	-	-	100	81	68	69
TGF- $\beta 3$	-	-	-	-	-	-	-	-	-	-	-	-	-	100	74	73
TGF- $\beta 4$	-	-	-	-	-	-	-	-	-	-	-	-	-	-	100	78
TGF- $\beta 5$	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	100

	54		133
GDF-1	PVPPVMWRLFRRRDPQEARVGRPLRPCHVEELGVAGNIVRHIPDSGLSSRPAQPARTSGLCPWTVVFDLSNVEPTERPT		
	111 111 1		
Vg-1	PVPSILWRIENQRMGSSIQKKKPDLCFVEEFNVPGSVIRVFPDQGRFIIPYSDDIHPTQCLEKRLEFFNISAIEKEERV		124
	46		

	219	234
GDF-1	SLLLVTLDPRLCPLPR	
	111 111 1 1 11	
Vg-1	SLLTVTLNPLRCKRPR	243
	228	

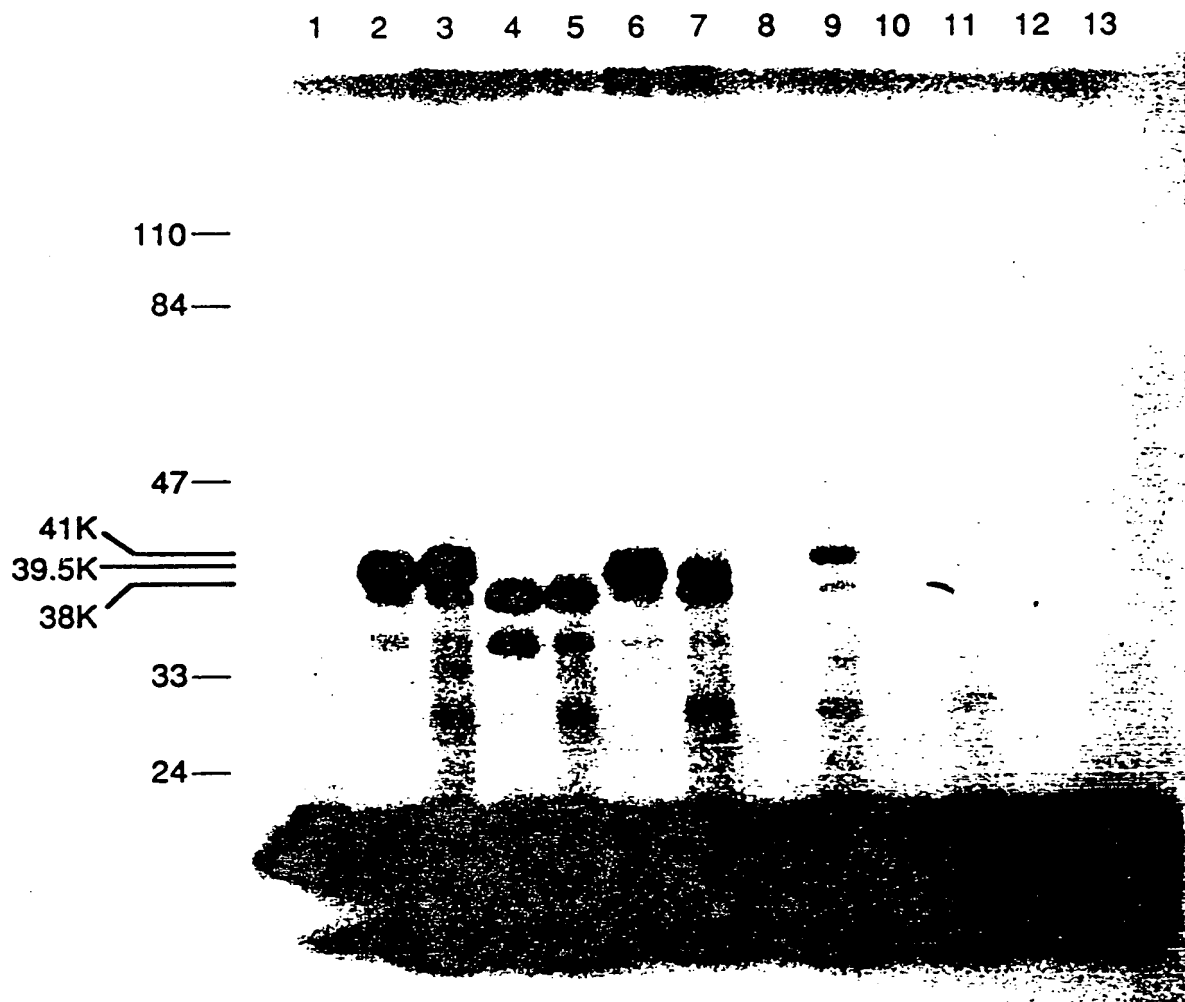


Figure 4

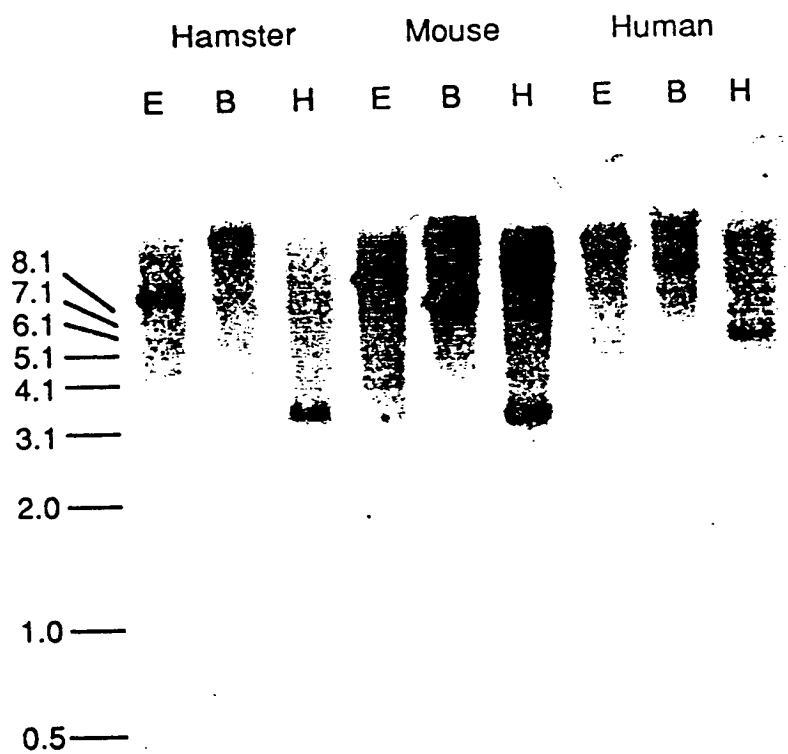


Figure 5

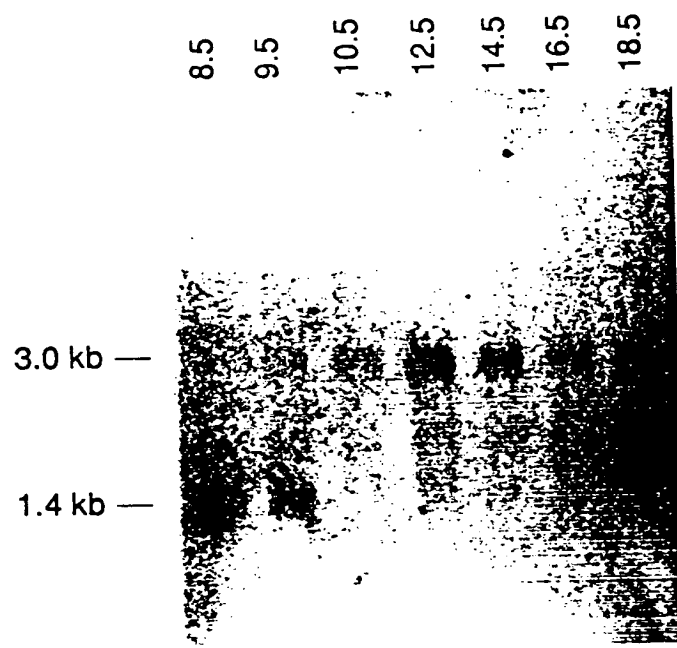


Figure 6

3.0 kb —

10.5 d placenta

testis

seminal vesicle

ovary

oviduct

uterus

brain

thymus

heart

lung

kidney

adrenal

spleen

liver

intestine

pancreas

Figure 7

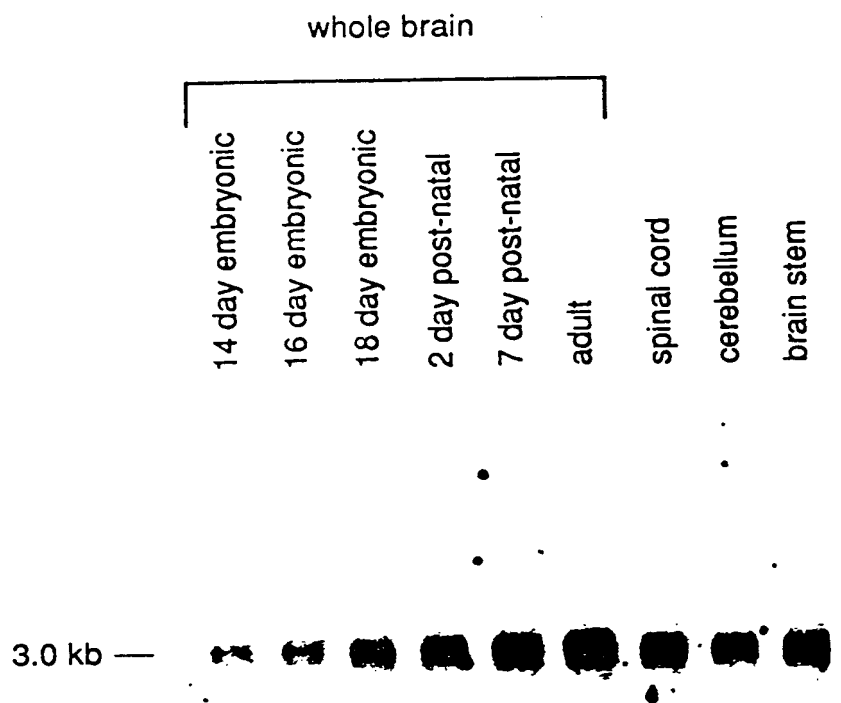


Figure 8

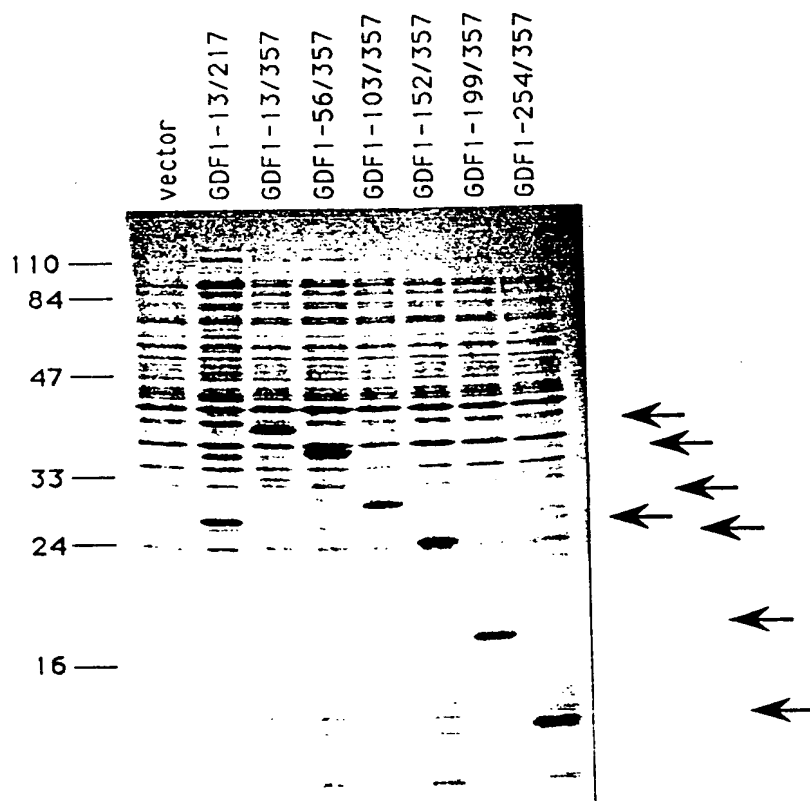


Figure 9

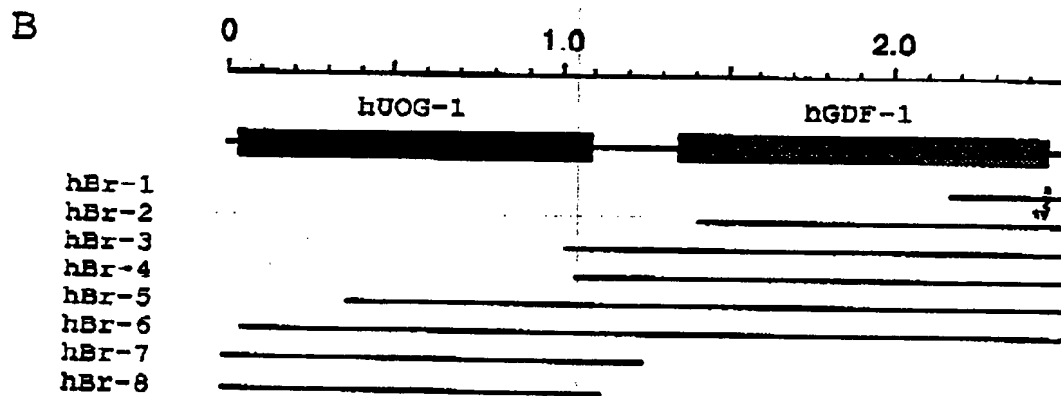
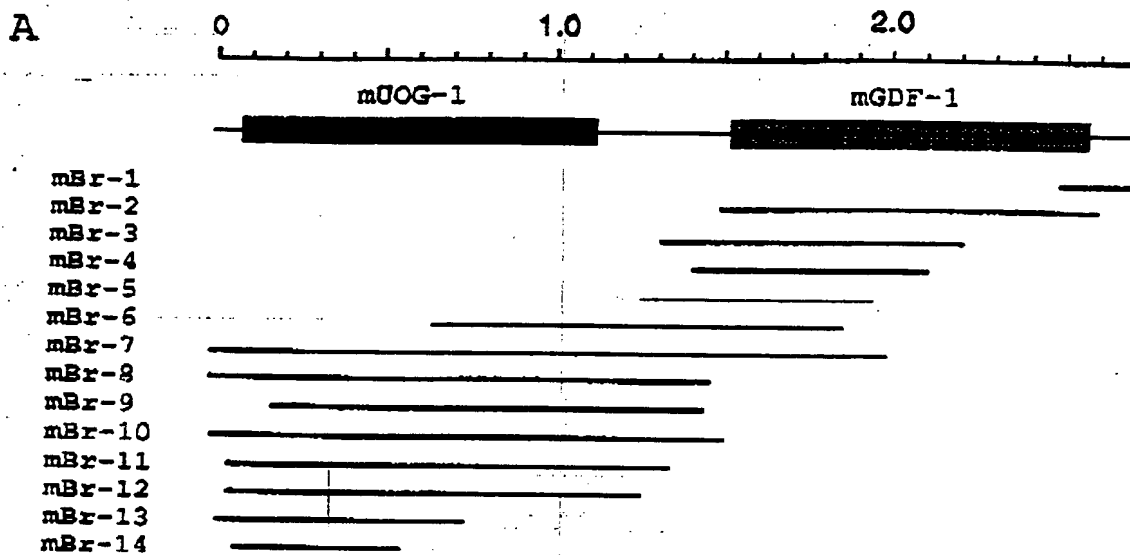


Figure 10

1 GCGCGTGACGCGAGGGCGCGCGCGGACTCGGACCGGTGCAGGCAACAGCGGAGACAGCGG 60
61 AGAATTGGATAGCATGGCTGCTGCGCGCGGACCCCGAGGCTCGAGGCGCCAGAGCCCAT 120
M A A A A A A T P R L E A P E P M
121 GCCGAGTTATGCGCAGATGTTGCAACGAAGCTGGGCCTCGGCCTGGCGGCGGCTCAGGG 180
P S Y A Q M L Q R S W A S A L A A A Q G
181 CTGCGGGGACTGCGGCTGGGACTGGCGCGCGCGGCTGGCGGAGCAGCGCACCTGGC 240
C G D C G W G L A R R G L A E H A H L A
241 TGCACCCGAGCTGCTGCTGGCCGTGCTGCGCTCTGGGGTGGACAGCGTTGCGCTGGGC 300
A P E L L L A V L C A L G W T A L R W A
301 AGCCACCACACACATCTTTTCGGCCCTGGCCAAGCGGTGTCGTCTGCAGCCTAGAGATGC 360
A T T H I F R P L A K R C R L Q P R D A
361 TGCCAGGTTACCTGAGAGCGCTGGAAGCTTCTGTCTACTTGGCCTGTGGAGCTACTG 420
A R L P E S A W K L L F Y L A C W S Y C
421 CGCTTACCTGCTCTGGGACCCAGTTATCTTCTTCCATGACCCGCTCTGTCTTCTA 480
A Y L L L G T S Y P F F H D P P S V F Y
481 TGA CTGGAGGTGAGGATGGCAGTGGCCTGGGACATCGCGTGGCTATTGTGTCAGGG 540
D W R S G M A V P W D I A V A Y L L Q G
541 GAGTTTCTACTGCCACTCCATCTATGCCACCGGTGACATGGACAGCTGGCGTAAGGACTC 600
S F Y C H S I Y A T V Y M D S W R K D S
601 GGTGGTCATGCTGGTGCATACGTTGGTCAACCTGCTCTCTTCTTCTTCTTCTTCTT 660
V V M L V H H V V T L L L I A S S Y A F
661 CCGGTACCACAACGTAGGCCTCTCGTGTCTTCTGTCATGACGTGAGCGATGTGACGT 720
R Y H N V G L L V F F L H D V S D V Q L
721 GGAGTTCACAAACTCAACATCTACTTTAAGGCTAGGGGTGGTGCCTACCATCGCTTGCA 780
E F T K L N I Y F K A R G G A Y H R L H
781 TGGGCTGGTGGCAACCTGGGCTGCTCAGCTTCTGTTTCTGCTGGTTCGGTTCGGCT 840
G L V A N L G C L S F C F C W F W F R L
841 CTACTGGTTCGCTCAAGGTTCTGTACGCCACTTGGCACTGCGAGCTGCGCTGCTGCGC 900
Y W F P L K V L Y A T C H C S L Q S V P
901 TGACATTCCGTACTACTTCTTCTTCAACATTCTGCTGTGTCTGCTGATGGTCATGAACAT 960
D I P Y Y F F F N I L L L L M V M N I
961 CTATTGGTTCCTGTACATTGTGGCTTTCGAGCAAGGTGCTGACTGGTCAGATGCGTGA 1020
Y W F L Y I V A F A A K V L T G Q M R E
1021 ACTGGAAGACTTGAGGGAGTACGACACTCTGGAAGCTCAGACAGCCAGCCCTGCAAGC 1080
L E D L R E Y D T L E A Q T A K P C K A
1081 CGAGAAGCCACTGAGGAATGGCCTGGTGAAGGACAAGCTTCTGAGTCTCTTGTCTCTCA 1140
E K P L R N G L V K D K L F
1141 ACTTCAGCCATCCAGGACTCTATCCCATCTACCTGGGATACTGACTCCGCCCTGGAGA 1200
1201 CTCGACCCAGTCCCTGGAGGTCTGCTCCACCCCTGGAGGCCCGGTCCCGCTTTGGCGG 1260
1261 CATGGCCTCGCCCTAGGACAATAGCCCCGCCCTAAGATTGAGATGTACCTTCTCCA 1320
1321 GGGACTCTGGCTGCCAGCAGCTCCGCCTTTCAGATCAATTCTCGACCCACCTTGGGA 1380
1381 CTGCCGCCAGTCTGCGCTCTGGATCAGTGGGGTCCAGACAGCCCGCTCCAGGACCTC 1440
1441 AAAGCACCCCGACCTAAGGTCAACAGCCACTGGCCCCAGACGAGTGGGCTCCGCTGA 1500
1501 CTCTCTTGACACCTCTGGGAGGAAAATGCTCCCTGTCTGCCATCGTTTTTGGCACCAC 1560
M L P V C H R F C D H
1561 CTCTCTCTCTGCTCTTGTCTGCCCTCGACGACCTGGCCCCCGCCAGCATCCATGGGC 1620
L L L L L L L P S T T L A P A P A S M G
1621 CCCGCTGCCGCCCTGCTCCAGGTTCTTGGGCTTCCCGAAGCGCCCCGAGCGTCCCCACA 1680
P A A A L L Q V L G L P E A P R S V P T
1681 CACCGACTGTGCTCTGTCTGTCATGTGGCGCTATTCCGTCGCCGCGACCCCGAGGAGCC 1740
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1741 AGAGTGGGACGCCCTCTGCGGCCATGCCACGTGGAGGAACTAGGGGTGCGCCGAAACATT 1800
R V G R P L R P C H V E E L G V A G N I
1801 GTGCGCCACATCCCCGACAGCGGTCTGTCTCCAGGCCCCGACACCCGCCAGGACCTCG 1860
V R H I P D S G L S S R P A Q P A R T S
1861 GGGCTGTGCCCGAGTGGACAGTCTGTTGACCTGTGCAATGTGAGGCCACAGAGCGC 1920
G L C P E W T V V F D L S N V E P T E R
1921 CCAACACGCGCGCTTAGAGTTGCGGCTGGAGGCTGAGAGTGAAGATACAGGGGGGTGG 1980
P T R A R L E L R L E A E S E D T G G W
1981 GAGCTAAGCGTGGCACTGTGGGCGACGAGCATCCAGGGCCTGAGCTGTGCGCGTG 2040
E L S V A L W A D A E H P G P E L L R V
2041 CCGGCGCCACAGGGGTGCTCTGCGCGCAGACCTACTGGGACTGCGATAGCCGCCAAC 2100
P A P P G V L L R A D L L G T A V A A N
2101 GCATCAGTGGCCTGTACTGTGCGCTGGCGCTGTACTGACCCCTGGGGCACTGACGCC 2160
A S V P C T V R L A L S L H P G A T A A
2161 TGTGGGCGCTGGCTGAGGCCTCCCTGCTGCTGGTACGCTGGACCCACGCTGTGTCCC 2220
C G R L A E A S L L L L V T L D P R L C P
2221 TTGCCGCGATTGGCGCGCACACGAGCCAGGGTAGAAGTTGGTCCAGTGGGCACTTGT 2280
L P R L R R H T E P R V E V G P V G T C
2281 CGTACCCGACGGTTGATGTGAGCTTCCGTGAGGTGGGCTGGCACCCTTGGGTGATCGCG 2340
R T R R L H V S F R E V G W H R W V I A
2341 CCGCGTGGCTTCTAGCCAACCTTGTCCAGGGCACGTGCGCACTACCCGAAACGCTGAGG 2400
P R G F L A N F C Q G T C A L P E T L R
2401 GGACCCGGCGGGCGGCTGCACTCAACACGCTGTGCTGCGCGCGCTCATGCACGAGCT 2460
G P G G P P A L N H A V L R A L M H A A
2461 GCTCCACCCCGGGTGCAGGCTCGCCCTGCTGCGTGCCAGAGCGTCTATCACCCATCTCC 2520
A P T P G A G S P C C V P E R L S P I S
2521 GTGCTCTTCTGACAATAGTGACAACGTGGTCTGCGACACTACGAAGACATGGTGGTG 2580
V L F F D N S D N V V L R H Y E D M V V
2581 GATGAGTGTGGCTGCCGTTGACCACCGGGACACCCCTTTCAGGACCGCCCAAGAAA 2640
D E C G C R
2641 GCAGGGACTGTTGTTCATGTTTTATTGGTGACAAAAAGCTTAAACAAATTTGACTAAA 2700
2701 AATTAAGTTCC 2711

Fig 11A

1 GGACACGGCGGGCGAGCGGGCGGTATGGCGGGCGGGGCGGGCGGGCGGGCGGGG 60
 61 CCCGAGCCCATGCCGAGCTACGCGCAGCTAGTCAGCGCGGCTGGGGCAGCGCGCTGGCG 120
 P E P M P S Y A Q L V Q R G W G S A L A
 121 GCGGCGCGGGGCTGCACGGAAGTGGGGCTGGGGCGTGGCGGCTGGGCTGAGCAC 180
 A A R G C T D C G W G L A R R G L A E H
 181 GCGCACCTGGCGCGCGCGGAGCTGTGTGCTGGCGCTCGGCGCGCTGGGCTGGACCGG 240
 A H L A P P E L L L L A L G A L G W T A
 241 CTGGGCTCCGCGGCGGCTGCGCGCTCTTTCGGCCCCCTGGCGAAGCGGTGCTGCTCCAG 300
 L R S A A T A R L F R P L A K R C C L Q
 301 CCCAGAGATGCCGCAAGATGCCGAGAGCGCTTGAAGTTTCTTCTACCTGGGCAGC 360
 P R D A A K M P E S A W K F L F Y L G S
 361 TGGAGCTACAGTGCCTACCTGCTGTTTGGCAGCGACTACCCCTTCTTCATGACCCACCA 420
 W S Y S A Y L L F G T D Y P F F H D P P
 421 TCTGTCTTCTACGACTGGACGCGGGGCTGGCAGTGCCACGGGACATTGACGCGCGCTAC 480
 S V F Y D W T P G M A V P R D I A A A Y
 481 CTGCTCCAGGAAGCTTCTATGGCCACTCCATCTACGCTACGCTATACATGGACACTGG 540
 L L Q G S F Y G H S I Y A T L Y M D T W
 541 CGCAAGGACTCGGTGCTGCTGCTCCACCGTGGTCACTCTCATCTCATCTGCTCTCC 600
 R K D S V V M L L H H V V T L I L I V S
 601 TCCTACGCTTCCGCTACCAATGTGGGCATCCTTGTGCTCTTCTGTCAGATATCAGT 660
 S Y A F R Y H N V G I L V L F L H D I S
 661 GACGTGACGCTTGAAGTTCACCAAGCTCAACATTTACTTCAAGTCCCGCGCGGCTCCTAC 720
 D V Q L E F T K L N I Y F K S R G G S Y
 721 CATCGGCTGCATGCTTGGCAGCAGACTTGGGCTGCCTCAGCTTCCGCTTCACTGGTTC 780
 H R L H A L A A D L G C L S F G F S W F
 781 TGGTTCGCGCTTACTGCTTCCGCTCAAGGCTCTGTATGCCACGCTCACTGCACTGTG 840
 W F R L Y W F P L K V L Y A T S H C S L
 841 CGCACGGTGCCTGACATCCCTTCTACTTCTTCTCAATGCGCTCCTGCTGCTGCTCACC 900
 R T V P D I P F Y F F F N A L L L L L T
 901 CTTATGAACCTTACTGCTTCTGTACATCGTGGCGTTTGCAGCCAAGGTGTTGACAGGC 960
 L M N L Y W F L Y I V A F A A K V L T G
 961 CAGGTGCACGAGCTGAAGGACCTGCGGAGTATGACACAGCGAGGCCAGAGCCTGAAG 1020
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 P S K A E K P L R N G L V K D K R F
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 1141 CTGGGCGCGCGCTCCACCCCTCCAATCTGCTCCTTAGGGCGCGCGCCACCTCCCTG 1200
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 M P P P Q Q G P C G H H
 1381 ACCTCCTCCTCCTCCTGCGCCTGTGTGCTGCCCTCGCTGCCCTGACCCGCGCGCGCGTGC 1440
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 1441 CCCAGGCGCGCGCGCGCTGCTCCAGGCTTAGGACTGCGCGATGAGCCCGAGGGTG 1500
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 L S A V E P A E R P S R A R L E L R F A
 1801 CGGCGCGCGCGCGCGAGCCCGGAGGGCGCTGGGAGCTGAGCGTGGCGCAAGCGGGCC 1860
 A A A A A A P E G G W E L S V A Q A G Q
 1861 AGGCGCGCGCGCGGACCCCGGCGCGGTGCTGCTCGCCAGTGTGTGCGCGCGCTGGGGC 1920
 G A G A D P G P V L L R Q L V P A L G P
 1921 CGCCAGTGGCGCGGAGCTGTGGGCGCGCTTGGGCTCGCAACGCTCATGGCGCGCGCA 1980
 P V R A E L L G A A W A R N A S W P R S
 1981 GCTTCCGCTGGCGCTGGCGCTACGCCCCCGGGCGCTGCGCGCTGCGCGCGCTGGCGG 2040
 L R L A L A L R P R A P A A C A R L A E
 2041 AGGCTTCTGCTGCTGCTGAGCCCTCGACCCGCGCTGTGCCACCCCTGCGCGCGCGCG 2100
 A S L L L V T L D P R L C H P L A R P R
 2101 GCGCGCAGCGCAACCGGTGTGGGCGCGCGCGGGCGGCTGTGCGCGCGCGCGCGG 2160
 R D A E P V L G G G P G G A C R A R R L
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 Y V S F R E V G W H R W V I A P R G F L
 2221 TGGCCAACCTACTGCCAGGCTCAGTGGCGCTGCCCTGCGCTGTGCGGGTCCGGGGGGG 2280
 A N Y C Q G Q C A L P V A L S G S G G P
 2281 CGCGCGCGCTCAACACGCTGTGCTGCGCGCGCTCATGCACGCGCGCGCGCGCGCGCG 2340
 P A L N H A V L R A L M H A A A P G A A
 2341 CCGACCTGCGCTGCTGCTGCGCGCGCGCTGTGCCCATCTCCGCTCTTCTTTGACA 2400
 D L P C C V P A R L S P I S V L F F D N
 2401 ACAGCGACAACGTGGTGTGCGCGAGTATGAGGACATGGTGGTGGACGAGTGGCGCTGCC 2460
 S D N V V L R Q Y E D M V V D E C G C R
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Fig. 11B

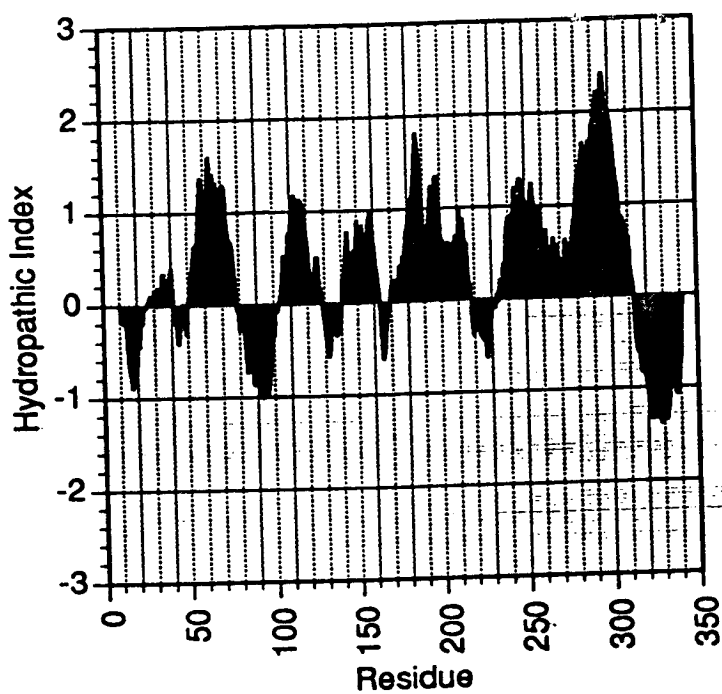


Fig 12

	1		57
mGDF-1	MLPVCHRFCDH--LLLL-LLLPSTTLAPAPASMGFAAALLQVLGLPEAPRSVPTHRVPVP		
hGDF-1	MPPPQQGPCGHLLLLLLALLLESPLTRAPVFPGPAAALLQALGLRDEPQGAPRLRFVP		
	1		60
	58		110
mGDF-1	VMWRLFRRRDPQEARVG-R---P---LRPCHVEELGVAGNIVRHIPDSGLSSRPAQPART		
hGDF-1	VMWRLFRRRDPQETRSGSRRTSPGVTLOPCHVEELGVAGNIVRHIPDRGAPTRASEPVSA		
	61		120
	111		166
mGDF-1	SGLCPEWTVVFDLSNVEPTERPTRARLELRLEAF ^S EDT--GGWELSVALWAD-AE-HPGP		
hGDF-1	AGHCPEWTVVFDLSAVEPAERPSPRARLELRFAAAAAAPEGGWELSVAQAGQGAGADPGP		
	121		180
	167		225
mGDF-1	ELLRVPAPP-GVLLRADLLGTAVAANASVPCTVRLALSLHPGATAACGRLAELSLLLVTL		
hGDF-1	VLLRQLVPALGPPVRAELLGAAWARNASWPSRLRLALALRPAPAACARLAELSLLLVTL		
	181		240
	226		284
mGDF-1	DPRLC-PLPRLRHTEPRVEVGPGVT [■] RTRLHVSEFREVGVHRWVIAPRGFLANF [■] OGT [■]		
hGDF-1	DPRLCPLARPRDAEPVLGGPGGA [■] RARLYVSEFREVGVHRWVIAPRGFLANY [■] OGG [■]		
	241		300
	285		344
mGDF-1	ALPETLRGPGGPPALNHAUVRALMHAAAPTPGAGSP [■] VPERLSPISVLFFDNSDNVVL		
hGDF-1	ALPVLSGSGGPPALNHAUVRALMHAAAPGA-ADLP [■] VPARLSPISVLFFDNSDNVVL		
	301		359
	345	357	
mGDF-1	HYEDMVVDE [■] GR [■]		
hGDF-1	QYEDMVVDE [■] GR [■]		
	360	372	

Fig 13a

	1	60
mUOG-1	MAAAATFRLEAPEPMPSYAQMLORSWASALAAQCGDCGWGLARRGLAEHAHLAAPEL	
hUOG-1	MAAAGPAAGPTGPEPMPSYAQLVQRGWSALAAARGCTDCGWGLARRGLAEHAHLAPPEL	
	1	60
	61	120
mUOG-1	LLAVLCALGWTALRWAATTHIFRPLAKRCRLOPRDAARLPESAWKLLFYLACWSYCAILL	
hUOG-1	LLLALGALGWTALRSAATARLFRPLAKRCCLOPRDAAKMPESAWKFLFYLGWSYSAYLL	
	61	120
	121	180
mUOG-1	LGTSYPPFFHDPPSVFYDWRSGMAVPWDIAVAYLLQGSFYCHSIYATVYMDSWRKDSVVML	
hUOG-1	FGTDYPPFFHDPPSVFYDWTGMAVPRDIAAAYLLQGSFYGHSIYATLYMDTWRKDSVVML	
	121	180
	181	240
mUOG-1	VHHVVTLLLIASSYAFRYHNVGILLVFFLHDVSDVQLEFTKLNIFYKARGGAYHRLHGLVA	
hUOG-1	LHHVVTLILIVSSYAFRYHNVGILVFLHDISDVQLEFTKLNIFYKSRGGSYHRLHALAA	
	181	240
	241	300
mUOG-1	NLGCLSEFCFCWEFWRFLYWFLKVLVYATCHCSLQSVDPIDPYFFFNILLLLLMVMNIYWFL	
hUOG-1	DLGCLSEFGFSWEFWRFLYWFLKVLVYATSHCSLRTVPDIPFYFFFNALLLLLTLMNLYWFL	
	241	300
	301	350
mUOG-1	YIVAFAAKVLGTGQMLEDLREYDTLEAQTAKPCKAEKPLRNGLVKDKLF	
hUOG-1	YIVAFAAKVLGTGQVHELKDLREYDTAEAQSLKPSKAEKPLRNGLVKDKRF	
	301	350

Fig 13b

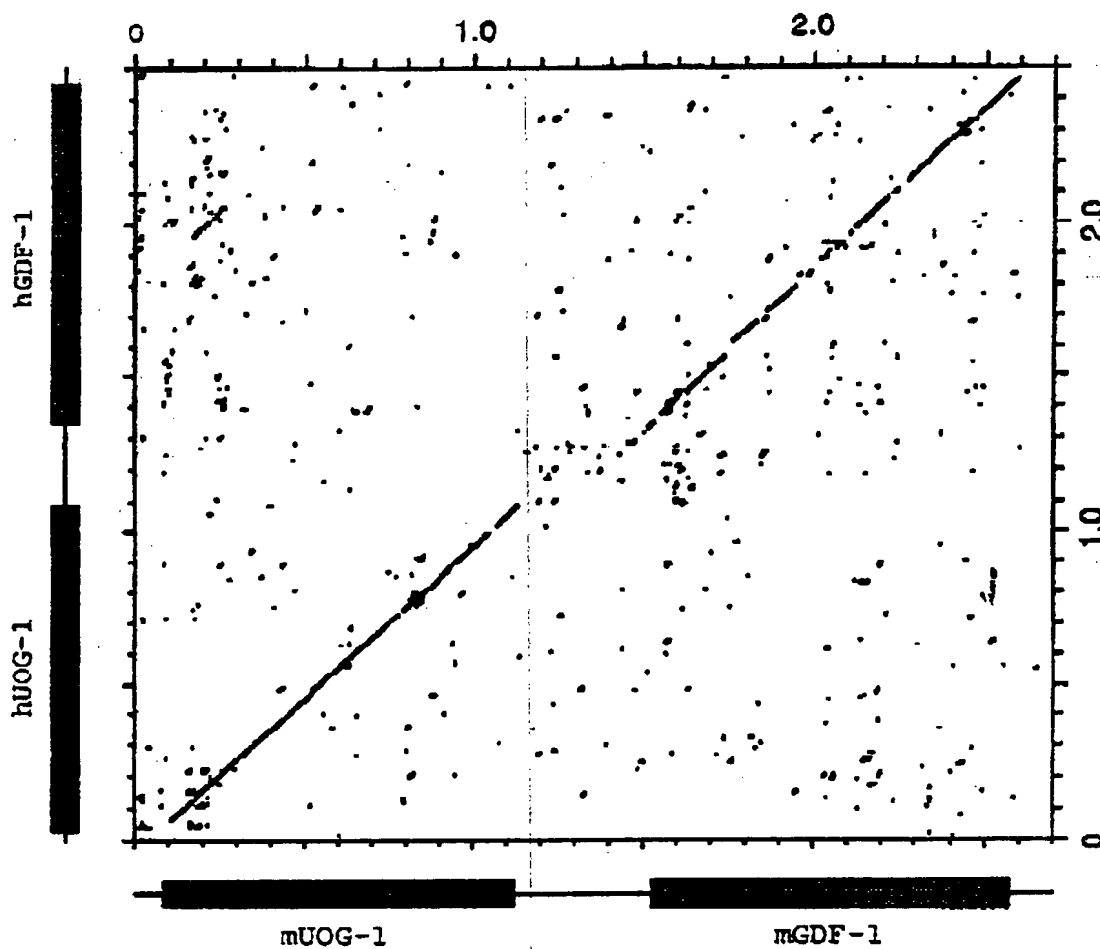


Fig 13c

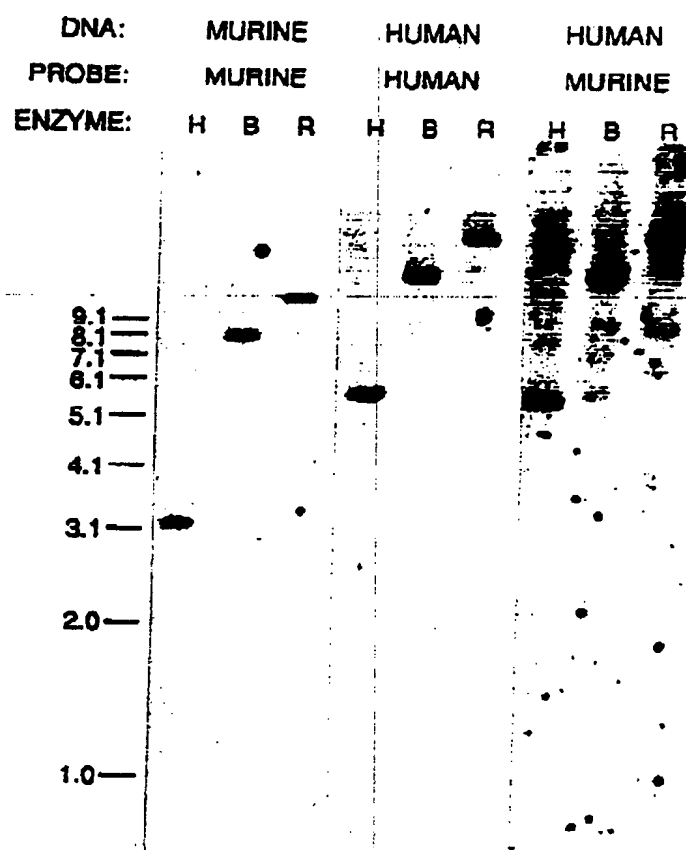


Fig 14